

$$E = R^{-6}/(R^{-6} + R_0^{-6})$$

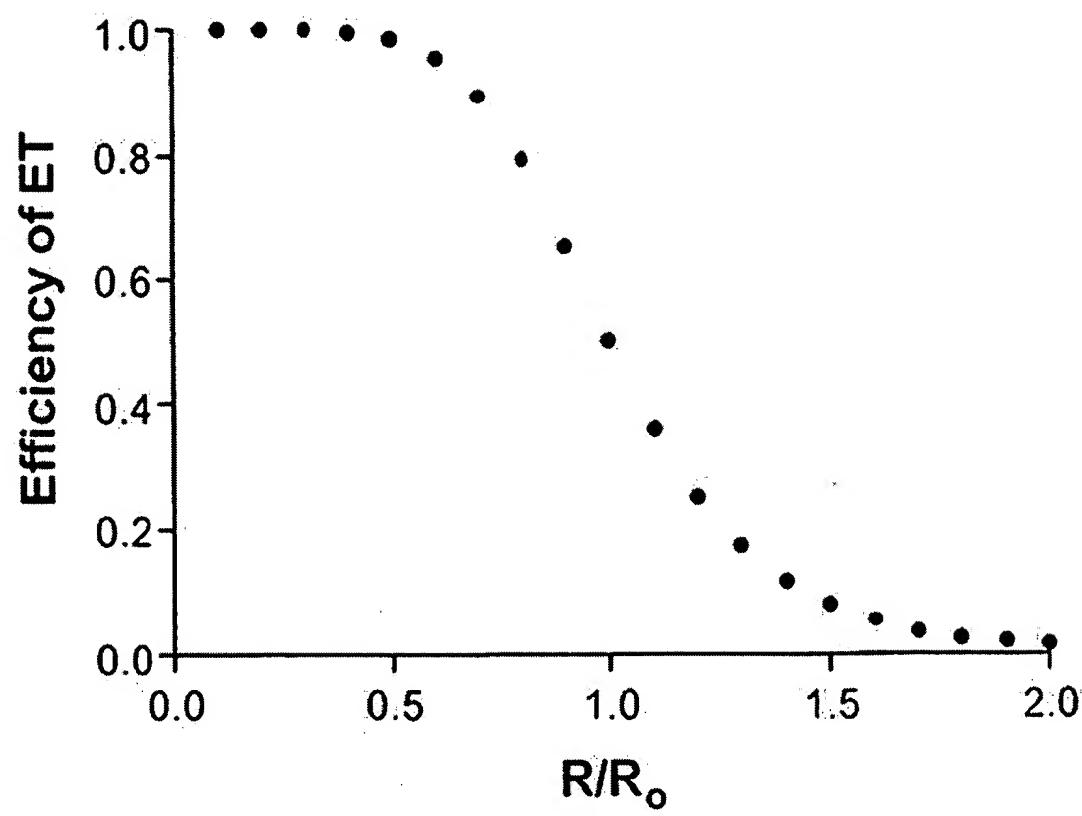


FIG. 1

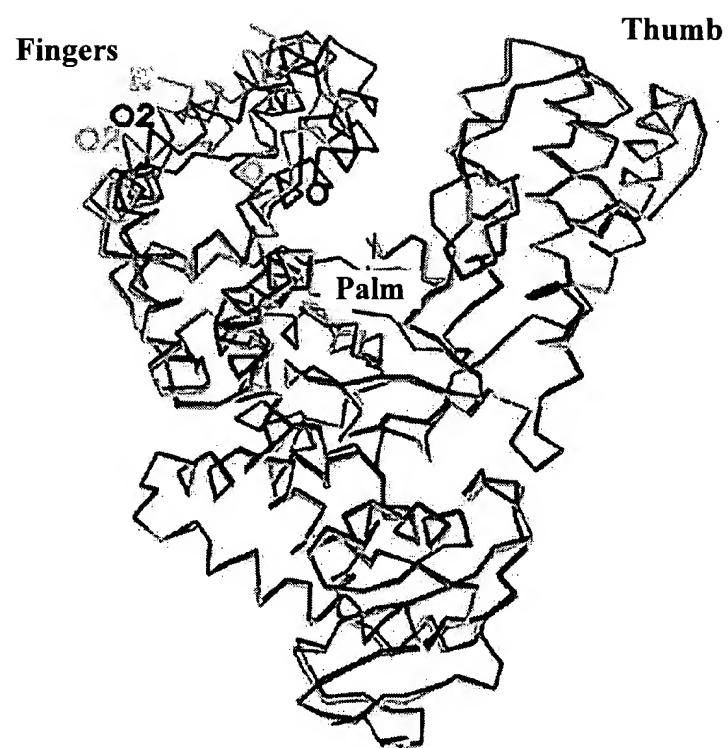


FIG. 2



FIG. 3A



FIG. 3B

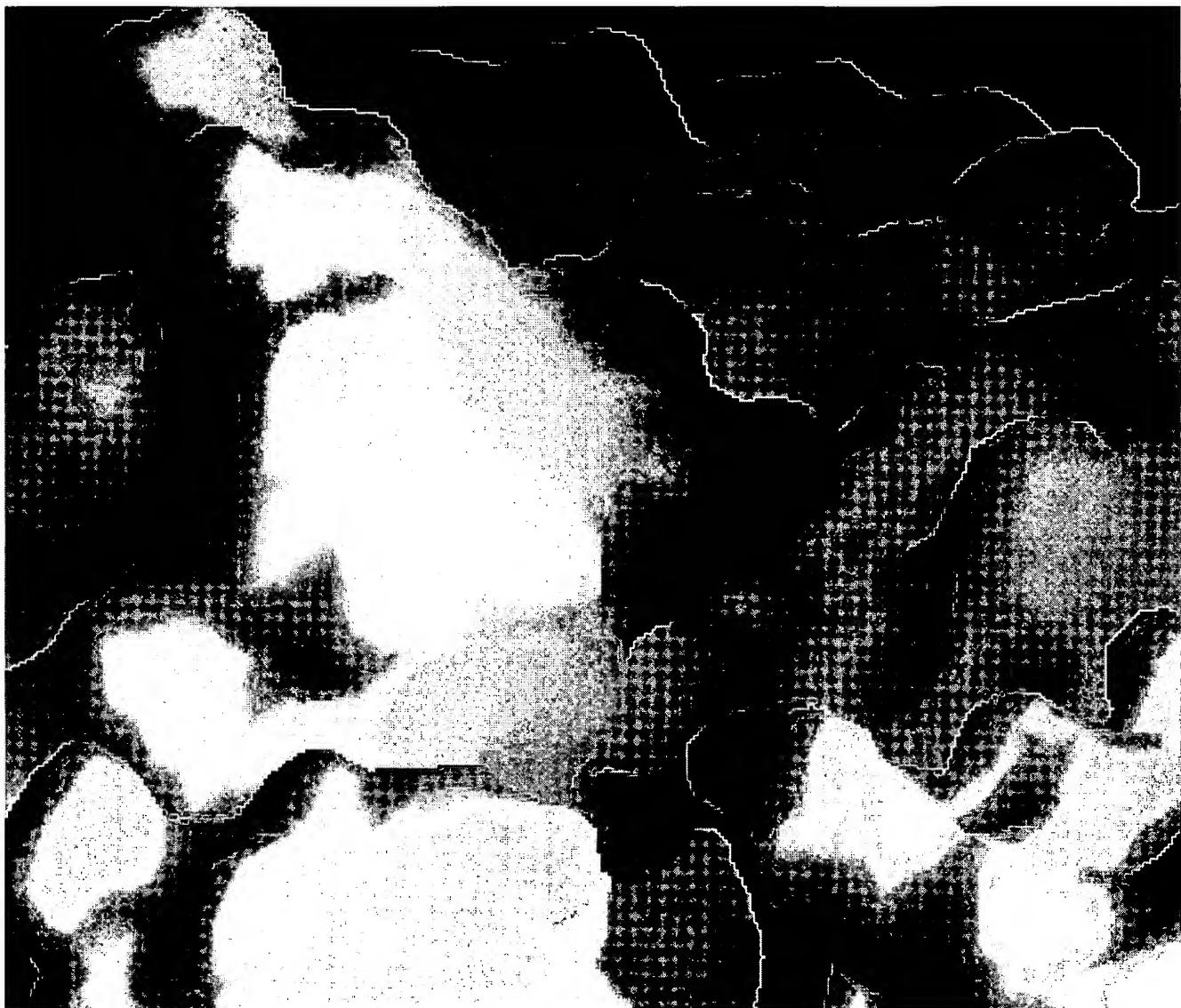
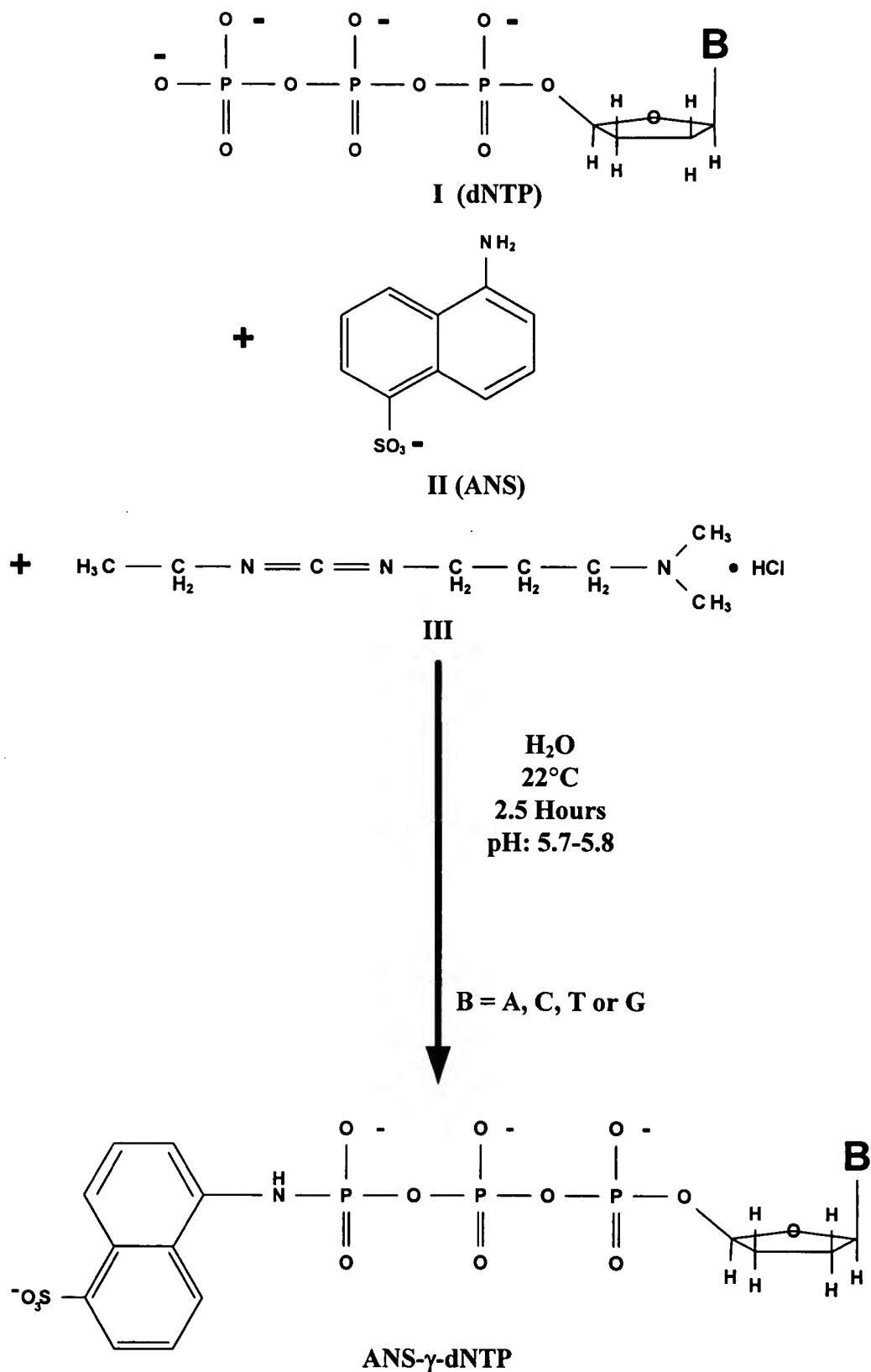


FIG. 3C

**FIG. 4**

Primer Strand:

TOP 5' GGT ACT AAG CGG CCG CAT G 3'

Template Strands:

BOT- T 3' CCA TGA TTC GCC GGC GTA CTC 5'

BOT- C 3' CCA TGA TTC GCC GGC GTA CCC 5'

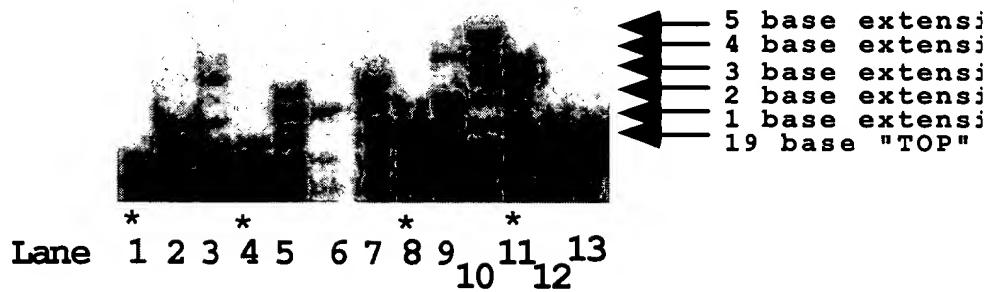
BOT- G 3' CCA TGA TTC GCC GGC GTA CGC 5'

BOT- A 3' CCA TGA TTC GCC GGC GTA CAC 5'

BOT- 3T 3' CCA TGA TTC GCC GGC GTA CTT TC 5'

BOT- Sau 3' CCA TGA TTC GCC GGC GTA CCT AG 5'

Incorporate: GATC AG AAAG
 (5' to 3')



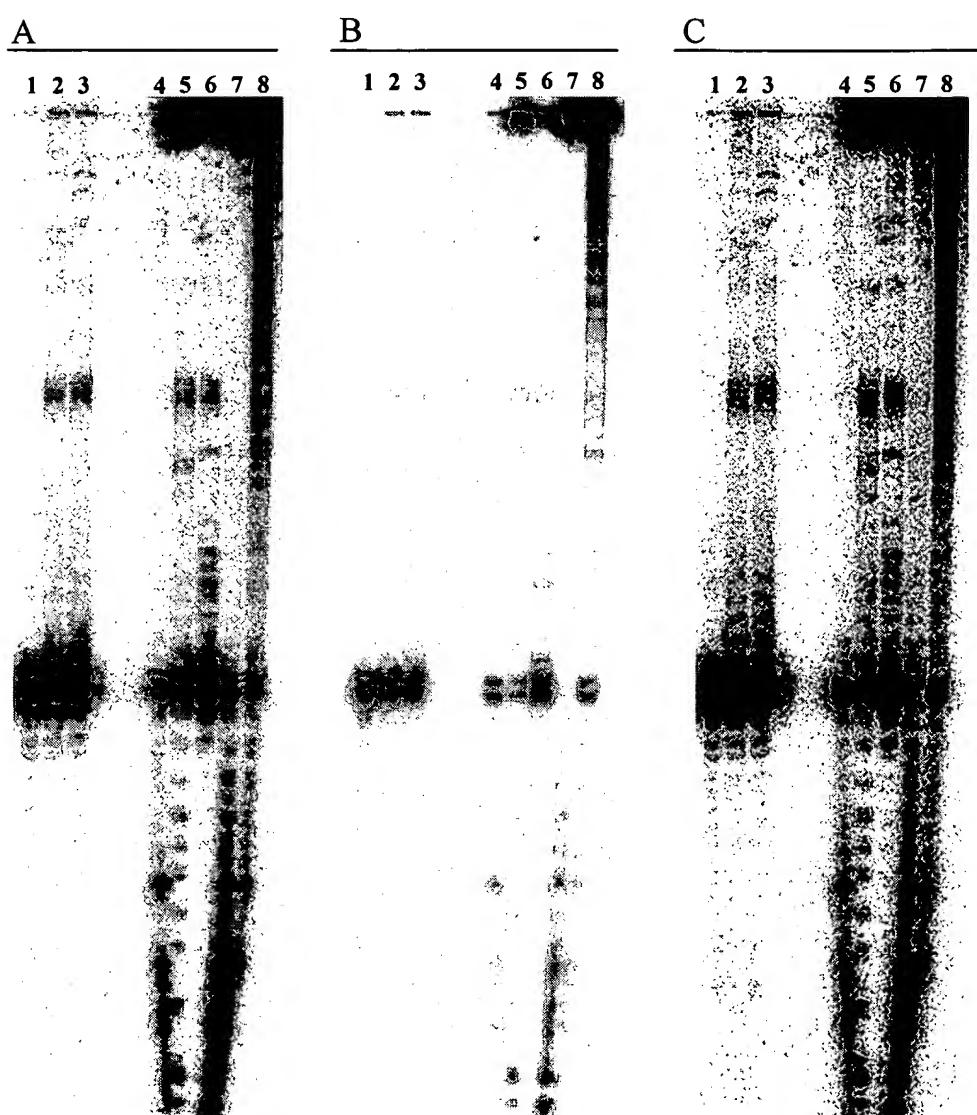


FIG. 6

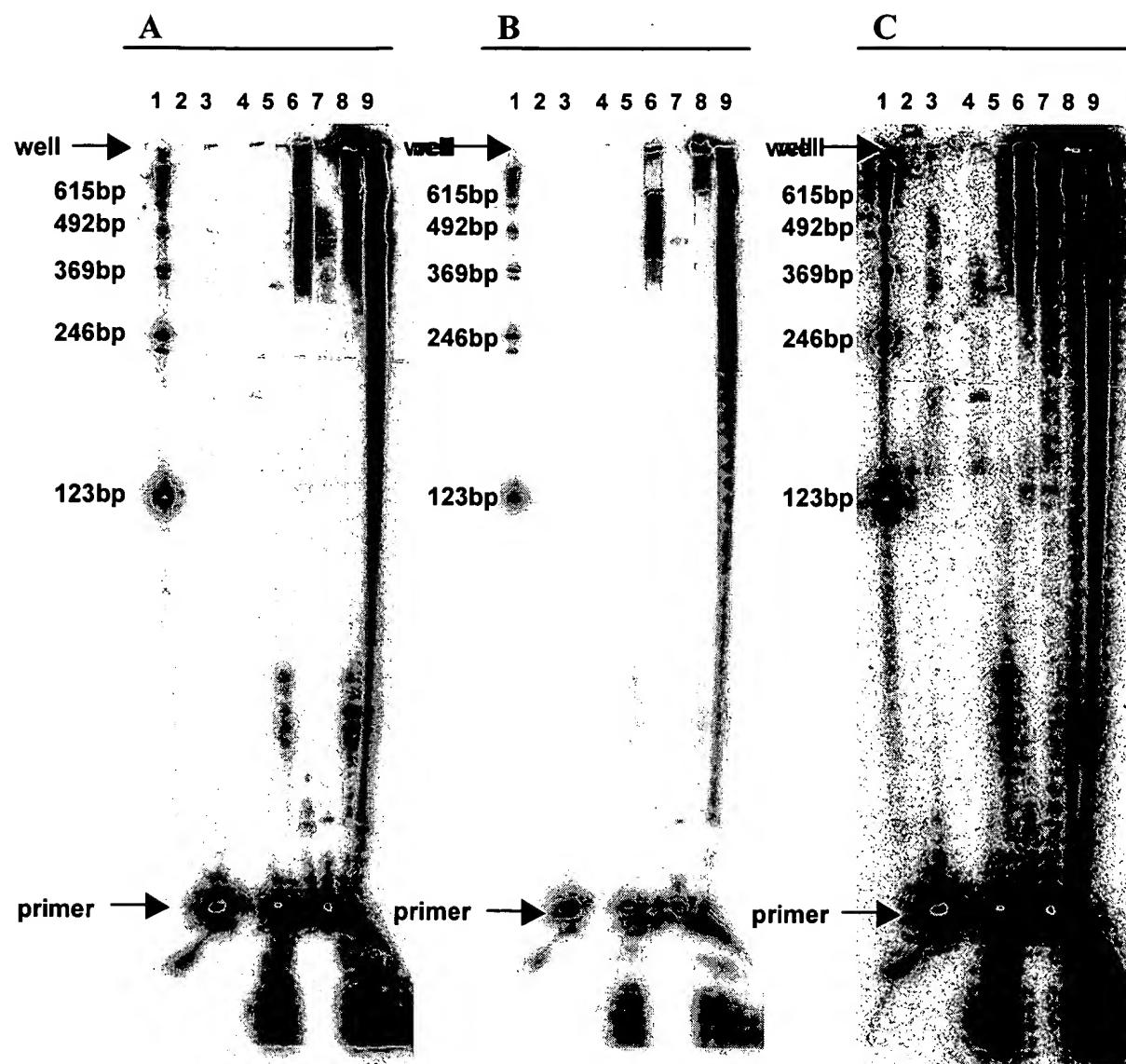


FIG. 7

	Klenow										<i>Taq</i>	
Enzyme	-	+	+	+	+	+	+	+	+	+	+	+
Primer (TOP)	+	+	+	+	+	+	+	+	+	+	+	+
Template	-	<u>BOT- 3T</u>	<u>BOT - T</u>	<u>BOT - Sau</u>	<u>BOT- 3T</u>							
Nucleotide	-	dG	dA	γ dA	dG	dA	γ dA	dG	dA	γ dA	dA	γ dA

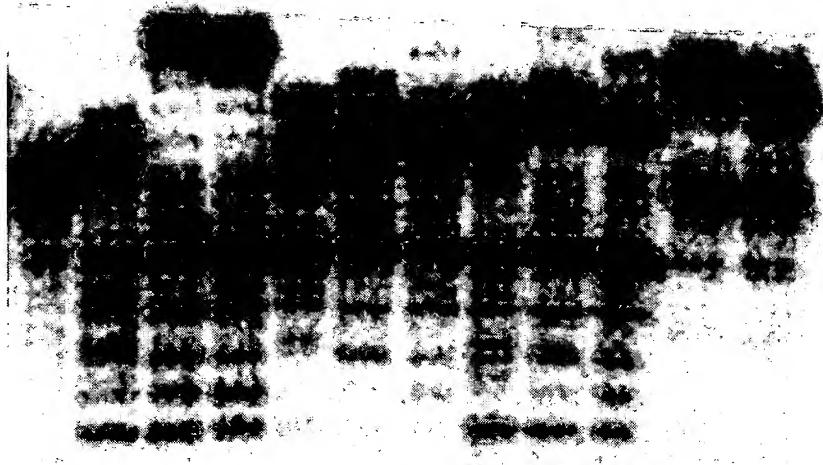


FIG. 8

Pfu Primer Extension Assays

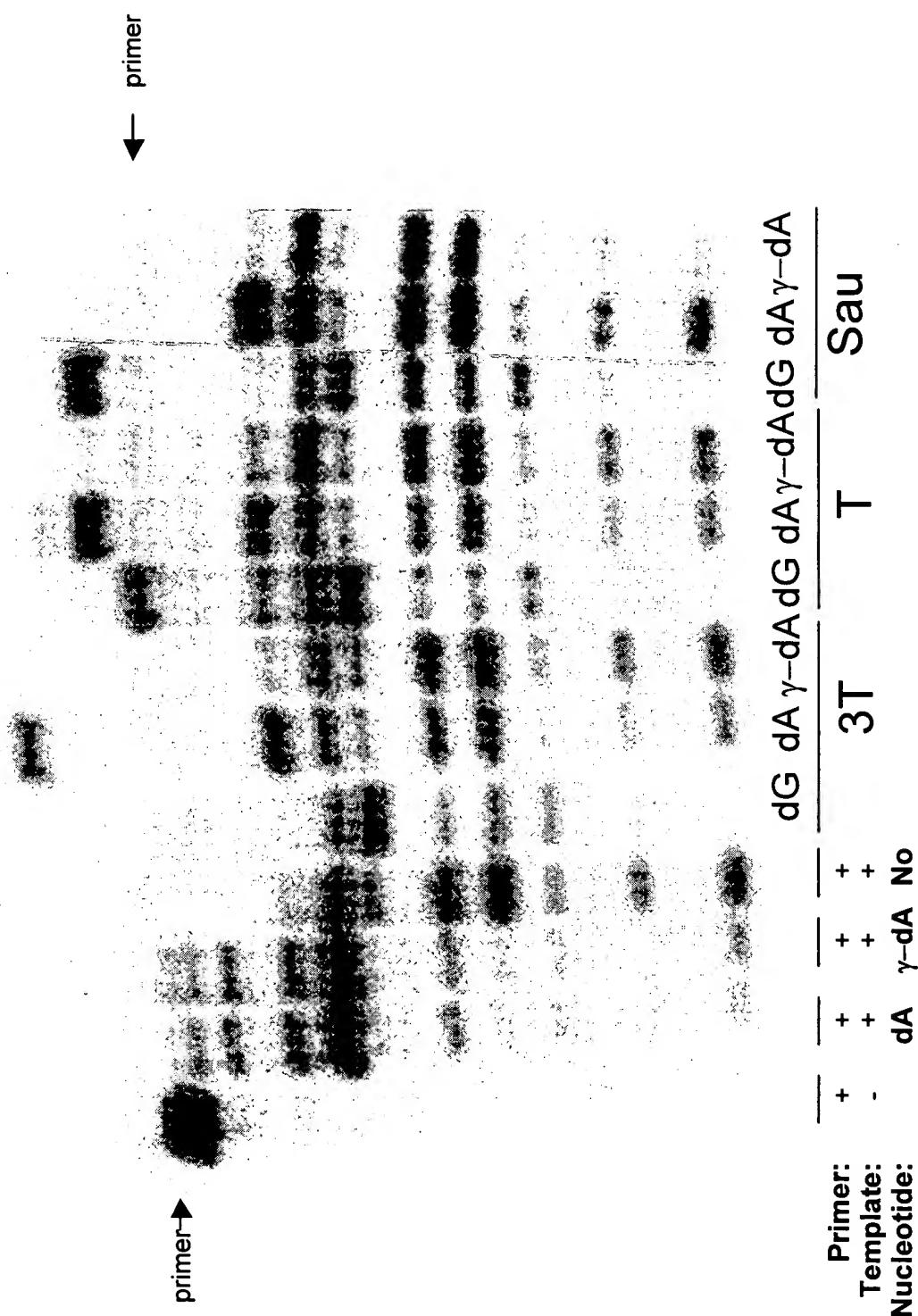


FIG. 9

- **Primer Strand:**
Top 5' GGT ACT AAG CGG CCG CAT G 3'
- **Template Strands:**
3T 3' CCA TGA TTC GCC GGC GTA CTT TC 5'
Sau 3' CCA TGA TTC GCC GGC GTA CCT AG 5'

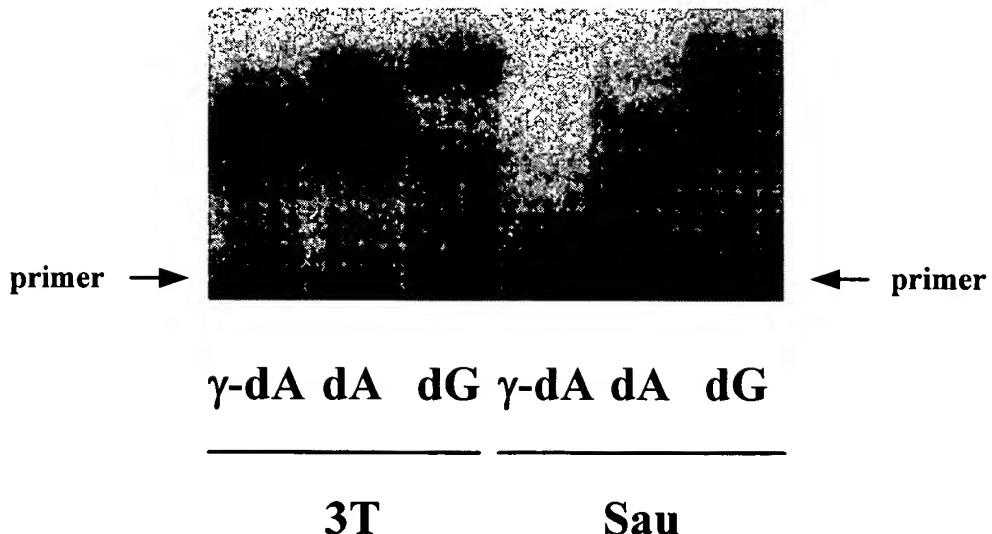


FIG. 10

- **Primer Strand:**
Top 5' GGT ACT AAG CGG CCG CAT G 3'
- **Template Strands:**
BOT - 3T 3' CCA TGA TTC GCC GGC GTA CTT TC 5'
BOT - Sau 3' CCA TGA TTC GCC GGC GTA CCT AG 5'

Enzyme:	None	T7	T7	Seq	Seq	T7					Sequenase					Taq	
Primer:	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Template:	-	+	-	+	BOT - 3T					BOT - 3T					BOT - 3T		
Nucleotide:	-	dA	γ -dA	dA	γ -dA	dG	dA (spill)	γ -dA	dG	dA	γ -dA	dG	dA	γ -dA	dG	dA	γ -dA

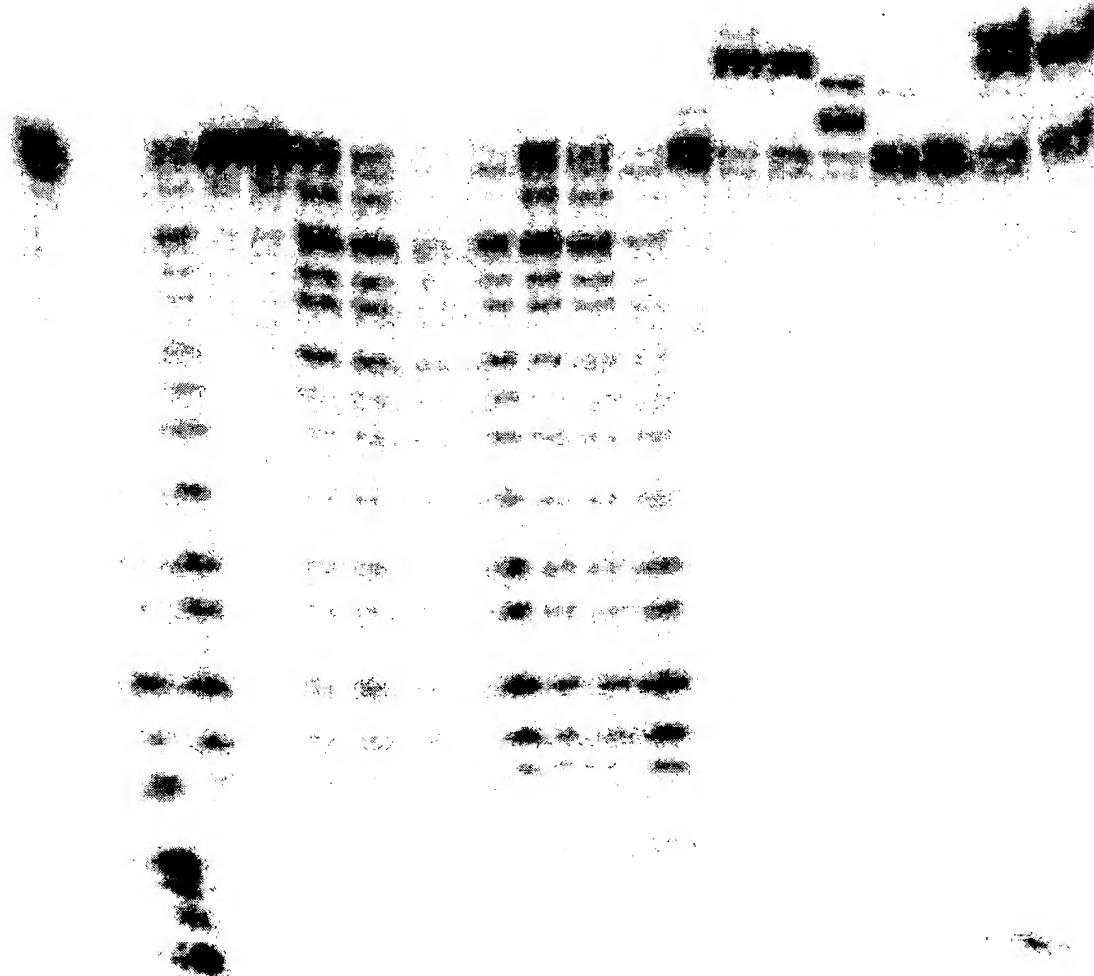


FIG. 11

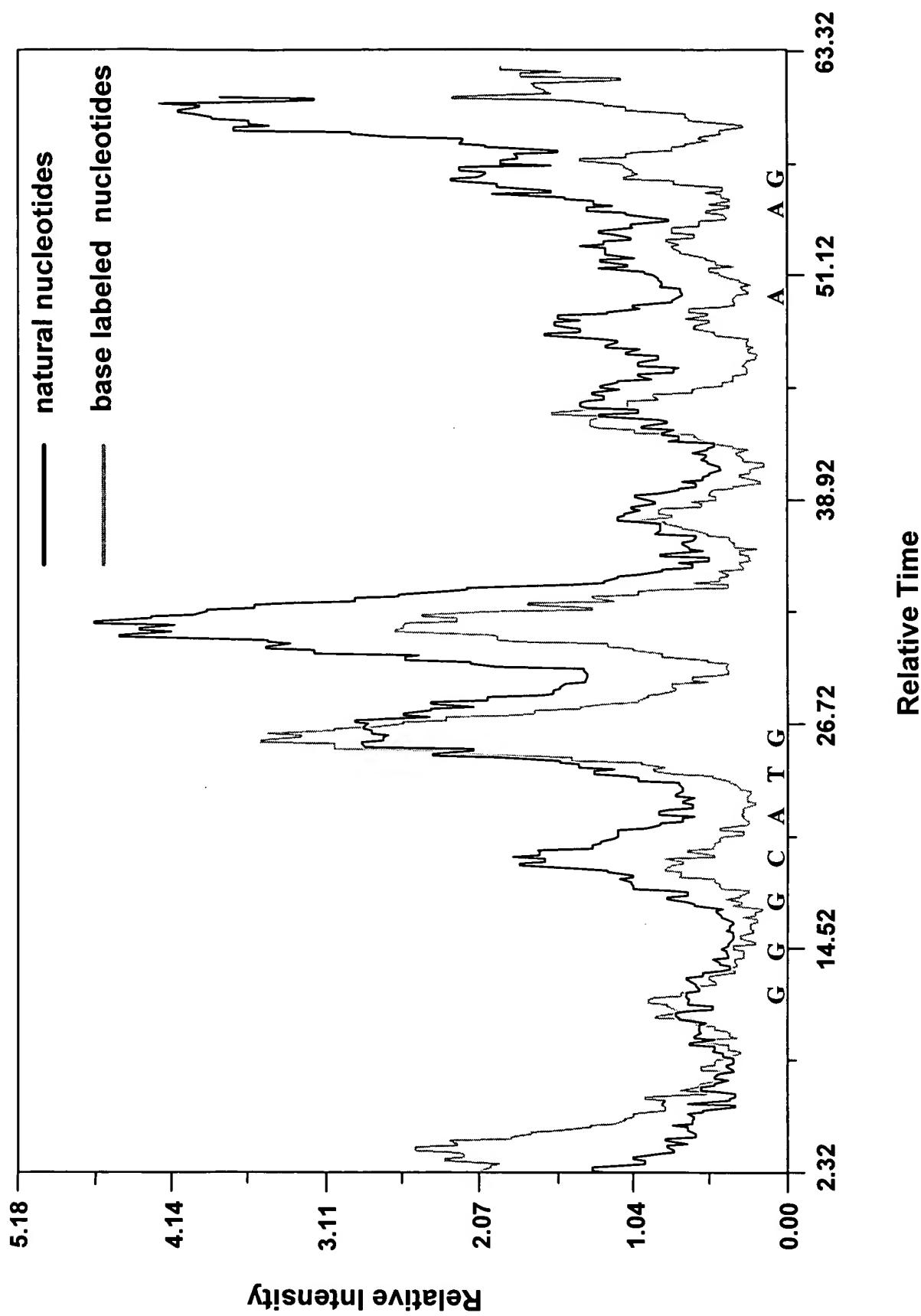


FIG. 12